

Title (en)

X-RAY DETECTION SYSTEM AND DETECTION METHOD

Title (de)

RÖNTGENSTRAHLDETEKTIONSSYSTEM UND DETEKTIONSVERFAHREN

Title (fr)

SYSTÈME DE DÉTECTION ET PROCÉDÉ DE DÉTECTION DE RAYONS X

Publication

**EP 3654070 A4 20201202 (EN)**

Application

**EP 19765147 A 20190516**

Priority

- CN 201811086635 A 20180918
- CN 2019087221 W 20190516

Abstract (en)

[origin: EP3654070A1] The present application discloses an X-ray detection system and method. The detection system includes: a beam source generator, first detectors, a second detector, a collimating device and a processor. The first detectors and the second detector are alternately arranged in a transmission direction of an object to be detected. The beam source generator is configured to emit a plurality of columns of beam signals, wherein each column of beam signals comprises a plurality of beam signals; the first detectors are configured to receive a plurality of columns of transmitted beam signals passing through the object; the collimating device is configured to perform a specificity selection from a plurality of columns of scattered beam signals passing through the object; the second detector is configured to receive scattered beam signals selected by the collimating device; and the processor is configured to determine a detection result of the object according to the plurality of columns of transmitted beam signals and the selected scattered beam signals.

IPC 8 full level

**G01V 5/00** (2006.01)

CPC (source: CN EP US)

**G01N 23/20008** (2013.01 - CN); **G01V 5/22** (2024.01 - EP); **G01V 5/222** (2024.01 - EP US)

Citation (search report)

- [XAI] WO 2011097386 A1 20110811 - MORPHO DETECTION INC [US], et al
- [XAI] EP 3182175 A1 20170621 - UNIV TSINGHUA [CN], et al
- See references of WO 2020057157A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3654070 A1 20200520; EP 3654070 A4 20201202; EP 3654070 B1 20230906;** AU 2019229405 A1 20200402; AU 2019229405 B2 20200723; CA 3055351 A1 20200318; CA 3055351 C 20220802; CN 110907481 A 20200324; JP 2021503070 A 20210204; JP 6942808 B2 20210929; US 10942290 B2 20210309; US 2020200941 A1 20200625; WO 2020057157 A1 20200326

DOCDB simple family (application)

**EP 19765147 A 20190516;** AU 2019229405 A 20190516; CA 3055351 A 20190516; CN 201811086635 A 20180918; CN 2019087221 W 20190516; JP 2019545792 A 20190516; US 201916626169 A 20190516